Joel A. Masselink

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SUMMARY

· A motivated, reliable professional dedicated to project efficiency, success, and impact.
· 12 years of experience providing GIS services for conservation and international development projects.
· An accountable, empathetic leader who values diverse perspectives and demonstrates integrity.
· Polymath with a keen eye for detail, technical precision, solution design, and stakeholder support.
· Employs a diverse geospatial science skillset to address environmental and sustainability issues.
· French proficiency, cultural adaptiveness, experience working cross-culturally in low-income countries.

WHAT I OFFER AS A GIS SPECIALIST

· Expert GIS skills developing analytical workflows, compiling data, and cartographic design
· Expertise with diverse GIS software and tools including:
    · desktop GIS platforms – ArcMap, QGIS
    · geoprocessing – GDAL/OGR, Python, ArcPy, and ModelBuilder
    · geospatial databases – PostgreSQL/PostGIS, ArcGIS Server, SQL Server, Cosmos
    · mobile data collection – ODK Collect, Trimble, Ushahidi
    · web-mapping libraries – Leaflet, Mapbox GL JS
    · earth observation and image analysis platforms – Idrisi, ENVI, Earth Engine
· Conversant with OpenStreetMap and authoritative public domain geospatial datasets.
· Experience with designing solutions, technical training, and facilitating mapathons.
· Experience in global wildlife conservation and natural resource management in sub-Saharan Africa.
· Strong written and oral communication skills, strong leadership capacity.

WORK EXPERIENCE

Earth Logic, LLC Principal Consultant   Seattle, WA, 2014 - present

· Providing custom geospatial solutions for clients in the environmental, natural resources, and international development sectors.

Select Consultancies

· Great Elephant Census - Forest Data Analysis. Consultancy with *Wildlife Conservation Society*.
· Spatial Data Assessment of Large-Scale Infrastructure in the Lower Mekong Region. Consultancy with *Wildlife Conservation Society*.
· Standardizing Large Mammal Surveys to the SMART-Ecological Records Data Model for Central Africa. Consultancy with *World Resources Institute*.
· Cartography of DRC Protected Area network. Consultancy with *World Wildlife Fund* / PARAP.

Microsoft via Insight Global Geospatial Data Analyst   Bellevue, WA, 2018 - 2019

· Managed releases, evaluated metrics, and performed analytics on new sources for Bing Maps data.

Vulcan, Inc. GIS Developer, Impact Engineering   Seattle, WA, 2015 – 2018

· Contributed geospatial data processing and visualization to software engineering projects.
· Provided data quality assurance, management, and mapping for large-scale wildlife surveys.

Wildlife Conservation Society GIS Coordinator   Democratic Republic of Congo, 2009 – 2013
- · Built GIS capacity through training, mentoring, and project management.
- · Managed and analyzed spatial data for land-use planning and wildlife monitoring activities.
- · Conducted land-cover mapping, land-change assessment, and species distribution modeling.

USAID Africa Bureau Intern, CARPE   Democratic Republic of Congo; 2008
- · Designed landscape maps for Congo Basin Forest Partnership publication, State of the Forest 2008.

NAEVA Geophysics GIS Specialist / Database Manager   Charlottesville, VA; 2006 – 2007
- · Managed target databases and provided GIS support for geophysical surveying projects.

EDUCATION

Clark University MA, Geographic Information Science   Worcester, MA; 2009
Coursework: geospatial databases, remote sensing, environmental & land change modeling

James Madison University BS, Geographic Science   Harrisonburg, VA; 2005
Coursework: GIS, spatial analysis, spatial statistics, image processing; minor in History.

CONTRIBUTOR TO PUBLICATIONS

International Union for Conservation of Nature Species Survival Commission (IUCN/SSC) Primate Specialist Group
& *Institut Congolais pour la Conservation de la Nature* (ICCN). 2012. Bonobo (*Pan paniscus*): Conservation
Strategy 2012–2022. Gland, Switzerland: p.65

Hickey, J., J. Nackoney, N. Nibbelink, S. Blake, A. Bonyenge, S. Coxe, J. Dupain, M. Emetshu, T. Furuichi, F. Grossman,
P. Guislain, J. Hart, C. Hashimoto, B. Ikembelo, O. Ilambu, B. Inogwabini, I. Liengola, A. Lokasola, A.
Lushimba, F. Maisels, **J. Masselink**, et al. 2013. Human proximity and habitat fragmentation are key drivers
of the rangewide bonobo distribution. Biodiversity and Conservation. Vol. 22, Issue 13, p.3085-3104.

ADVISORY BOARD MEMBERSHIP / VOLUNTEERING

Tusubira-We Have Hope	treasurer & board member	Seattle, WA; 2014 – present
LUCHA-DRC	Ushahidi technical support	Seattle, WA; 2017 – 2018
Water supply engineering	GIS technical support	Uganda, 2005

PROFESSIONAL ASSOCIATION MEMBERSHIP
- · Global Leadership Forum – Cohort XII (2019)
- · OpenStreetMap US and OpenStreetMap Foundation member
- · Society for Conservation GIS member & Domestic Chapter organizer

INTERNATIONAL PROFESSIONAL EXPERIENCE
- · Democratic Republic of Congo, Uganda, Republic of Congo, Rwanda, Philippines, United States

LANGUAGE SKILLS
- · English fluency; French proficiency; basic Swahili and Luganda